

Sustainability Commission Update October 21, 2009

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Recycle more. Waste less.

NEW Initiatives Underway

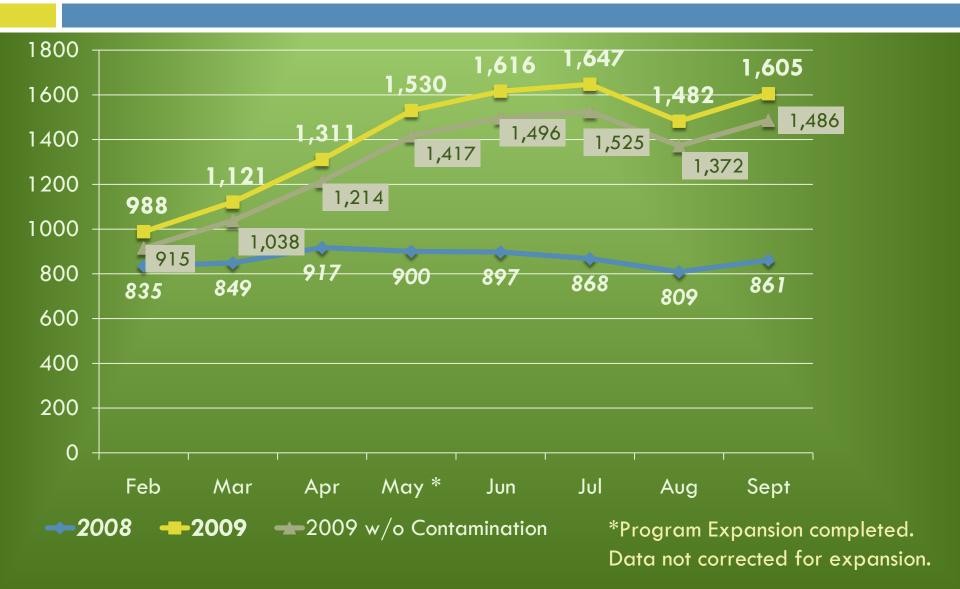
- □ Single Stream
- Commercial
- Source Reduction
- Outreach
- LGE
- □ WTE
- Possibilities...



Participation & Set-Out Rates



Curbside Tonnages 2008 vs. 2009



Challenge Faced: Contamination

Contamination is the voluntary inclusion of unacceptable items in the recycling stream.

Contamination is a BIG problem. Contamination COSTS the County!!

Remember: "When in doubt, throw it out!"



How are other counties doing?

- Anne Arundel 6.61%
- Baltimore City 5.28%
- DC 5.3%
- Howard 2.5%

Previous

Rate:

5.28%

Current

Rate:

7.39%

Cost to

County:

\$245/ton

Other Recycling Opportunities



Not Just Residential Recycling...



Leading by Example..







Not just Residential Recycling...

Recycling at Businesses







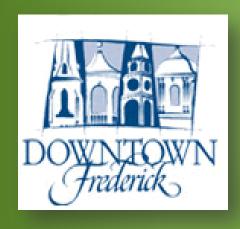




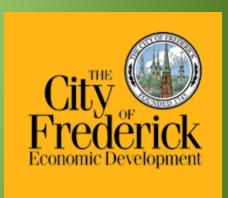


Not just Residential Recycling...

Partnerships









Making connections.

Focus Forward on GREEN at the Great Frederick Fair

The Great Frederick Fair and it's partners request your assistance in our recycling efforts. Please deposit your empty bottles and cans in the BLUE recycling bins located around the fair.

THANK YOU for recycling.







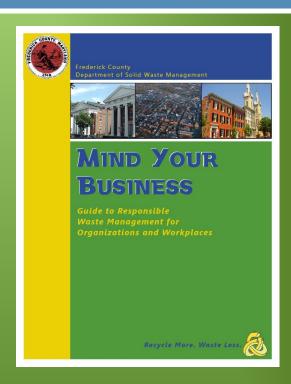




Not just Residential Recycling

Outreach to Businesses

Recognition Awards for Susinesses with Innovative Waste Reduction Practices



Seminars for Businesses on Recycling & Waste Reduction

New Outreach: Source Reduction

Source Reduction









New Outreach Initiatives











Landfill Gas to Energy



- Methane is a significant greenhouse gas
- Replaces current flaring (only) methane
 which changes methane to CO2
- Project captures gas from Site A & Site B landfills
- Will generate up to 2 mega watts of electricity
- □ Electricity will be sold as green energy
- County to receive payments for gas usage, renewable energy credits and carbon credits

Waste to Energy

Solid Waste Management Hierarchy

Source Reduction and Reuse

Most Preferred

Recycling/Composting

Combustion with Energy Recovery

Landfilling and Incineration without Energy Recovery

Least Preferred

Source: U.S. Environmental Protection Agency

Waste to Energy

- ✓ BoCC approved a joint 1500 TPD facility with Carroll County
- √ 45 megawatts of energy will be produced by the facility during peak production which is enough to power ~ 30,000 homes
- ✓ Listed as a renewable energy source by the State of Maryland and the Federal Government



Montgomery County's Waste-To-Energy Facility Dickerson, MD

Waste to Energy

- ✓ Is a more preferable waste disposal option than landfills (including landfill with gas recovery)
- ✓ Viewed as carbon sink when including the offsets from burning fossil fuels and/or burying waste (including landfill with gas recovery)
- ✓ Allows for increases in recyclable recovery, particularly ferrous and non-ferrous metal recovery



Computer rendering of proposed Frederick County facility

In the Works...

- Focus groups with businesses on recycling & source reduction
- Online source reduction survey
- Educational seminars for businesses
- Proposed food waste composting pilot program
- Proposed pilot program with apartment/condo complexes (no collection provided)
- Proposed expansion of recycling into more parks
- Proposed recycling program for community events

Questions??